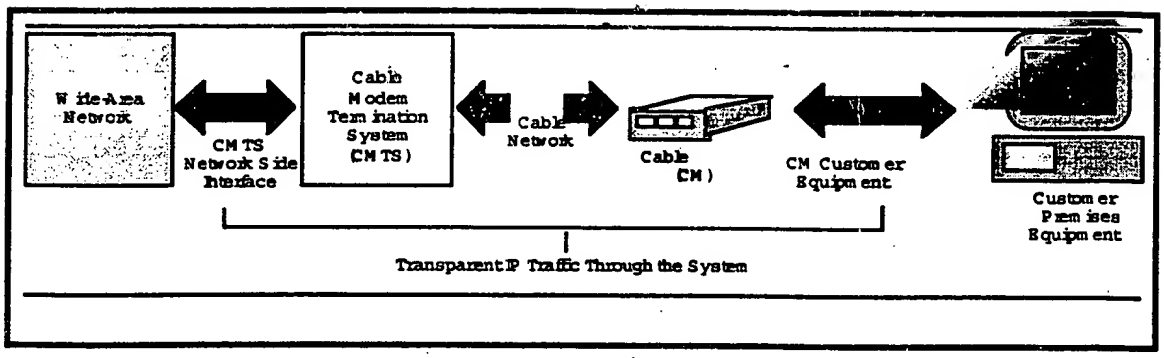
Wide Area Network
CMTS Network Side Interface
Cable Modem Termination System (CMTS)
Cable Network
Cable CM)
CM Customer Equipment
Customer Premises Equipment
Transparent IP Traffic Through the System

FIG. 1

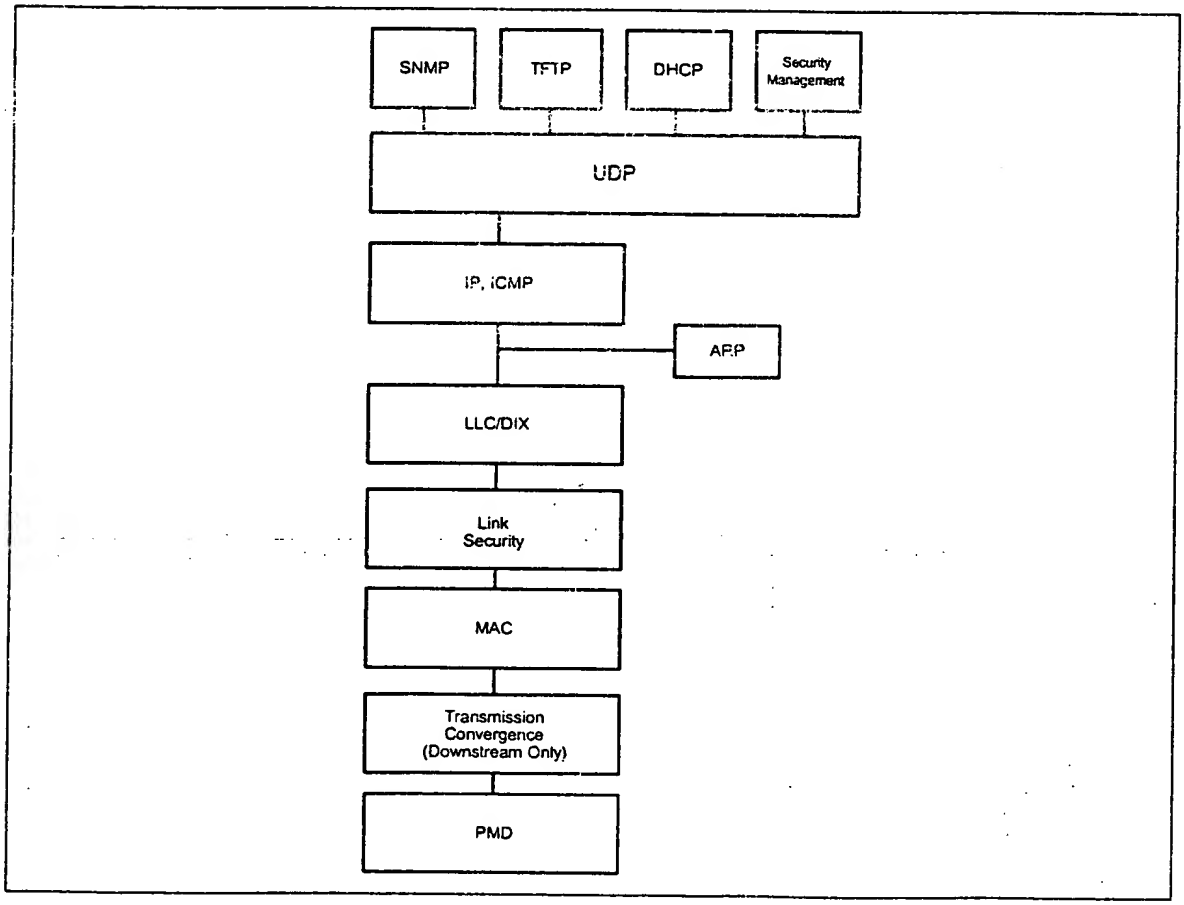
SNMP
TFTP
DHCP
Security Management
UDP
IP, ICMP
ARP
LLC/DIX
Link Security
MAC
Transmission Convergence (Downstream Only)
PMD

FIG. 2

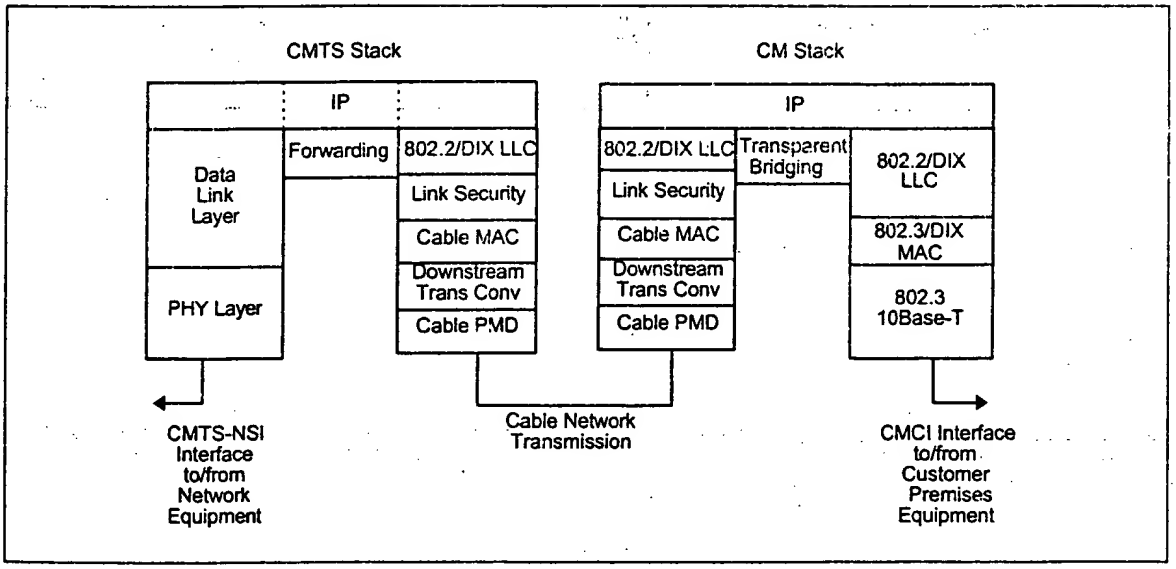
CMTS Stack
CM Stack
IP
Forwarding
802.2/DIX LLC
Data Link Layer
Link Security
Cable MAC
Downstream Trans Conv
Cable PMD
PHY Layer
IP
802.2/DIX LLC
Transparent Bridging
802.2/DIX LLC
Link Security
Cable MAC
802.3/DIX MAC
Downstream Trans Conv
Cable PMD
802.3 10Base-T
CMTS-NSI Interface to/from Network Equipment
Cable Network Transmission
CMCI Interface to/from Customer Premises Equipment

FIG. 3

Level 1 Networking Architecture Control/Data Flow Design

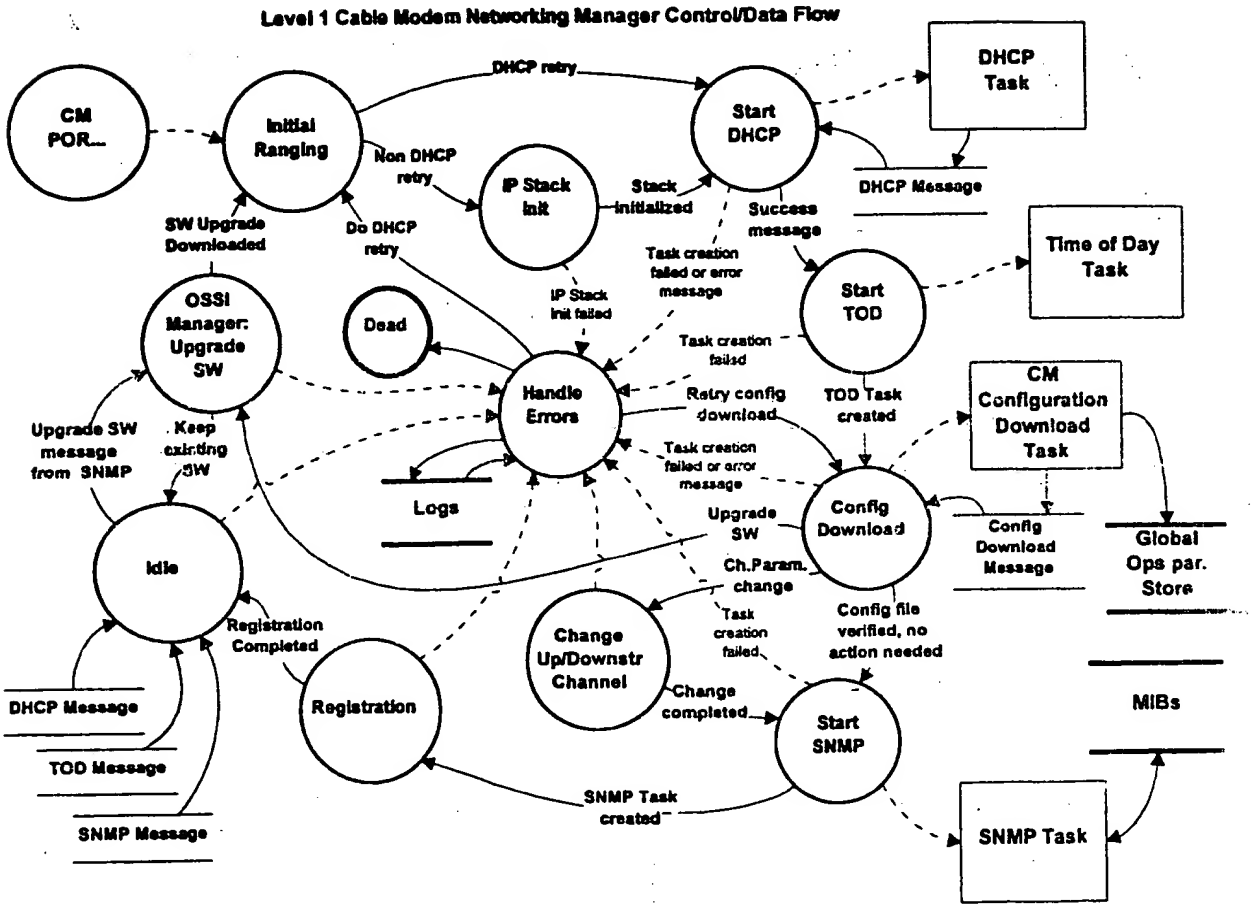

FIG. 4

OSSI Management Control/Data Flow

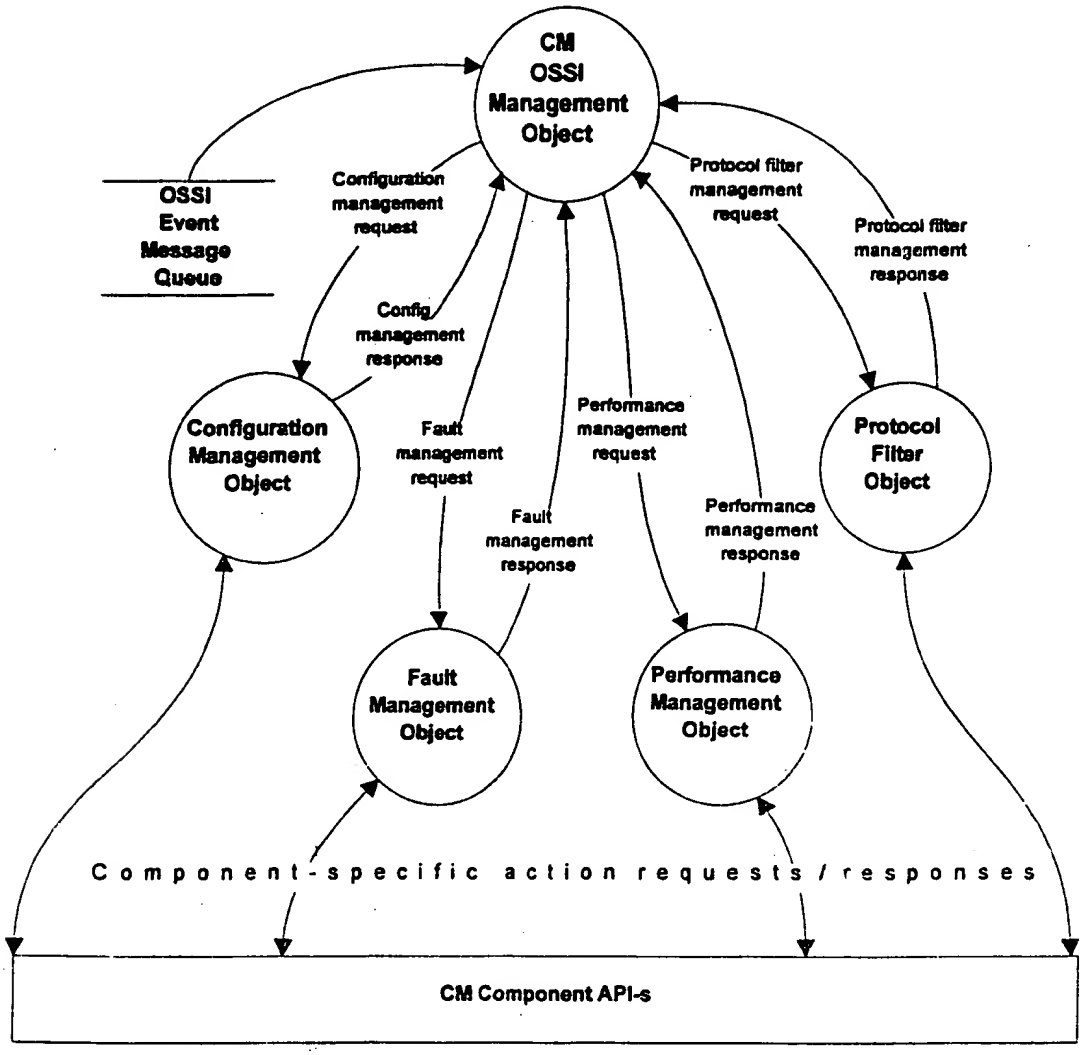

FIG. 5